

## ABSTRACT OF THE DISCLOSURE

A data model including a first table to represent an entity type with a column in the table for a respective attribute of the entity type, and having rows entered with attribute data. The data model also includes a row graph which represents an ordering relationship between the rows of the first table, and a column graph which represents an ordering relationship between columns of the first table. Further, the column graph is a row graph from a second table.

0955787-051101  
101150-1825820